abcam

ab314046

Anti-ARID2 antibody [BLR213K] - BSA free

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human ARID2 aa 1750 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q68CP9
Clone number	BLR213K
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

ICC

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information ARID2

Function	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Required for the stability of the SWI/SNF chromatin remodeling complex SWI/SNF-B (PBAF). May be involved in targeting the complex to different genes. May be involved in regulating transcriptional activation of cardiac genes.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	Up to 12 months

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

REACH authorisation
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ARID2 also known as AT-rich interactive domain-containing protein 2 is a component of the SWI/SNF chromatin remodeling complex. It has a molecular mass of approximately 183 kDa. ARID2 is expressed in various tissues with high levels found in the liver kidney and testis. In the cell nucleus it functions as a DNA-binding protein playing a role in modulating chromatin structure through its interaction with other chromatin-associated proteins.
Biological function summary	ARID2 contributes to regulating gene expression by remodeling chromatin allowing transcription factors access to DNA. It acts as a part of the PBAF subtype of the SWI/SNF complex which includes proteins like BRG1 and BAF200. This complex influences transcriptional activation and repression aiding the regulation of genes important for cellular differentiation and development. Loss or mutation of ARID2 affects normal biological processes indicating its role in ensuring proper cellular function.
Pathways	ARID2 plays a role in the RAS signaling and the Hedgehog signaling pathways. It interacts with proteins such as BAF155 and BAF170 which are essential for recruiting and assembling the PBAF complex on chromatin. These pathways are critical for cellular proliferation and differentiation ensuring that cells respond accurately to signals which is vital for maintaining tissue homeostasis and proper organismal development.
Associated diseases and disorders	ARID2 mutations are linked to hepatocellular carcinoma and malignant melanoma. These mutations are associated with abnormalities in chromatin remodeling that lead to transcriptional dysregulation. The target is also connected to proteins like BRD9 and BRD7 within the context of cancer which are involved in tumor suppression. Alterations in ARID2 might contribute to the progression and aggressiveness of these cancers by disrupting normal chromatin dynamics and gene expression patterns.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

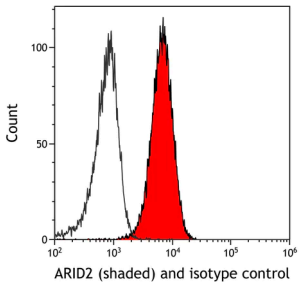
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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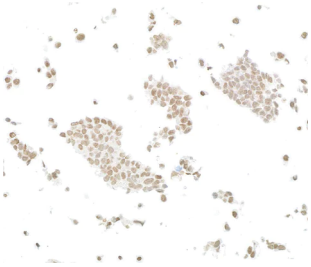
4 product images



Flow Cytometry (Intracellular) - Anti-ARID2 antibody [BLR213K] - BSA free (ab314046)

ARID2 Flow Cytometry (Intracellular) staining using rabbit Anti-ARID2 antibody

Detection of human ARID2 (shaded) in Jurkat cells by flow cytometry. Antibody: Rabbit anti-ARID2 recombinant monoclonal antibody [BLR0213K] (ab314046) or isotype control (unshaded). Secondary: DyLight® 488-conjugated goat anti-rabbit IgG (ab96883).



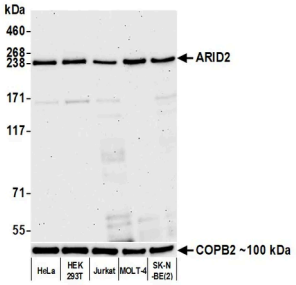
Immunocytochemistry - Anti-ARID2 antibody [BLR213K] - BSA free (ab314046)

Sample: FFPE section of LNCaP (Human prostate cancer cell line) cells. Antibody: Standard version of ab314046 at a 1/100 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE cell sections.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARID2 antibody [BLR213K] - BSA free (ab314046)

This data was developed using the standard version of ab314046, the same antibody clone in a different buffer formulation. Sample: FFPE section of human prostate carcinoma. Antibody: Standard version of ab314046 at a 1/100 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Epitope retrieval with Tris-EDTA pH6.0 is recommended for FFPE tissue sections.



Western blot - Anti-ARID2 antibody [BLR213K] - BSA free (ab314046)

Samples: Whole cell lysate (10 µg) from HeLa, HEK293T, Jurkat, MOLT-4, and SK-N-BE(2) cells prepared using NETN lysis buffer. Antibody:Rabbit anti-ARID2 recombinant monoclonal antibody [BLR213K] (A700-213 lot 1) used at 1:1000. Secondary:HRP-conjugated goat anti-rabbit IgG (A120-101P). Chemiluminescence with an exposure time of 75 seconds. Lower Panel: Rabbit anti-COPB2 antibody (A304-523A).
All lanes:
Western blot - Anti-ARID2 antibody [BLR213K] - BSA free (ab314046) at 1/1000 dilution

Lane 1:
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 2:
HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 10 µg

Lane 3:
Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 10 µg

Lane 4:
MOLT-4 (Human lymphoblastic leukemia cell line) whole cell lysate at 10 µg

Lane 5:
SK-N-BE(2) (Human neuroblastoma cell line) whole cell lysate at 10 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.